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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/760,438	01/20/2004	Caibin Xiao	020354 076P2	9228
	7590 03/02/2007 ESSLER & VANDERBUR	EXAMINER		
6055 ROCKSIDE WOODS BOULEVARD			VALENTIN, JUAN D	
SUITE 200 CLEVELAND,	ОН 44131		ART UNIT	PAPER NUMBER
=== , == ,	,		2877	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		03/02/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)			
	10/760,438	XIAO ET AL.			
Office Action Summary	Examiner	Art Unit			
	Juan D. Valentin II	2877			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was pailure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be till apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE.	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on <u>04 Description</u> 2a)⊠ This action is FINAL . 2b)□ This 3)□ Since this application is in condition for allower closed in accordance with the practice under E	action is non-final. nce except for formal matters, pr				
Disposition of Claims					
4) Claim(s) 1-14 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-14 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	vn from consideration.				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct and the correct of the control of the correct and the correct of the control of the correct of the control of the correct of the control of the	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	ate			

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 12/04/2006 have been fully considered but they are not persuasive. See the rejection below which has been maintained.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

2. Claim 9 rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

The claims are directed to a judicial exception, specifically an abstract idea; as such, pursuant to the Interim Guidelines on Patent Eligible Subject Matter (MPEP 2106), the claims must have either physical transformation and/or a useful, concrete and tangible result. The claims fail to include transformation from one physical state to another. Although, the claims appear useful and concrete, there does not appear to be a tangible result claimed. Merely carrying the steps of identifying; determining; devising; evaluating; quantifying; etc...would not appear to be sufficient to constitute a tangible result, since the outcome of the step has not been used in a disclosed practical application nor made available in such a manner that its usefulness in a disclosed practical application can be realized. As such, the subject matter of the claims is not patent eligible. To further amplify the rejection, it is noted that the final step (g) of claim 9 is

"quantifying" (i.e. determining) the analyte concentration. How is this quantifying step carried out in the instant invention? The specification as originally filed reveals that once all the measurements have been made and the information has been collected, some sort of processor or processing medium carries out the step of "quantifying", that is to say the final step in the instant claim is merely carrying out a mathematical algorithm and claims no practical application (applicants originally filed specification, page 10 paragraph [0044], page 12 paragraph [0047], page 13 paragraph [0049]). Applicant is referred to MPEP § 2106.02 which clearly states:

"In practical terms, claims define nonstatutory processes if they:

- consist solely of mathematical operations without some claimed practical application (i.e., executing a "mathematical algorithm")"

Practical application that produces a useful, concrete, and tangible result under Section IV determines whether the claimed invention complies with the subject matter eligibility requirement of 35 U.S.C. Sec. 101, sentence 3, in the OG Notice from 22 November 2005 "Interim Guidelines for Examination of Patent Applications for Patent Subject Matter Eligibility" states "In determining whether the claim is for a "practical application," the focus is not on whether the steps taken to achieve a particular result are useful, tangible, and concrete, but rather that the final result achieved by the claimed invention is "useful, tangible, and concrete."

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claim 1 rejected under 35 U.S.C. 102(b) as being anticipated by Slovacek et al. (USPN '715, hereinafter Slovacek).

Claim 1

Slovacek in conjunction with Figs. 8 & 13, a mounting adapter (Fig. 13, ref. 426), a test element having a wave propagating surface (Fig. 13, ref. 424), said test element being detachably mounted to said adapter, a reagent film immobilized on said test element, said reagent film including at least one internal reference standard having a constant spectral response, at least one light source attached to said adapter, said source being capable of emitting a divergent light beam with a portion of said light beam impinging an edge of said surface at an angle of reflection greater than the critical angle for said surface, said light beam being effective to stimulate a dual light response from said test element and from said reagent film, at least one photo detector attached to said adapter, said detector being capable of detecting said dual light response, and of generating an electronic signal response indicative of said dual light response, and electronic circuit means for processing, storing and transmitting said electronic signal response, and controlling said light source (col. 11, line 15-col. 12, line 4, & col. 15, line 42-col. 16, line 12).

Applicant has argued that Slovacek does not disclose a test element with "a" wave propagating surface. The preamble states "said system <u>comprising</u>:", applicant is reminded that comprising is not an inclusive term, assuming Slovacek has two or more wave propagating surfaces it wouldn't matter because Slovacek clearly show "a" wave propagating surface as claimed by applicant. In response to applicants argument that the sensor of Slovacek does not exhibit a constant spectral response. Examiner notes that while Slovacek might disclose the use

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of a predetermined spectral response, it is noted that once that predetermined spectral response is excited, it's spectral emission (response) is constant at a particular wavelength as clearly disclosed by Slovacek (col. 7, line 33-col. 8, line 11).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 2-6 & 7-8 rejected under 35 U.S.C. 103(a) as being unpatentable over Slovacek in view of Boss (USPN '288 B1).

Claims 2-6

Slovacek substantially teaches the claimed invention except that it fails to show a perforated multi-sectional test element with an integrated clock with an alarm means. Boss shows that it is known to provide a perforated multi-sectional test element with an integrated clock with an alarm means (Figs. 3A, 3B, 4, & 5, col. 2, lines 44-56 & col. 3, line 18-col. 4, line 43) for an chemical detection sensor. It would have been obvious to someone of ordinary skill in the art to combine the device of Slovacek with the perforated multi-sectional test element with integrated clock of Boss for the purposes of providing detection of the occurrence of a chemical reaction in order to record and store measured data.

Claims 7 & 8

Slovacek fails to disclose whether the sensors or reversible or non-reversible. However, the advantage and the use of reversible and non-reversible chemical sensors are well known in the art of chemical analyte sensing. Therefore, a mere claiming the use of a reversible and/or non-reversible chemical sensor in conjunction with the disclosed analyte sensor of Slovacek would have been obvious to a person of ordinary skill in the art at the time the invention was made for the purposing of creating a reusable or disposable chemical sensor depending on the particular application the sensor was being used for.

Allowable Subject Matter

5. Claim 9 objected to as being a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 10-14 depend from claim 9 and would be allowable if the rejection to claim 9 is overcome.

Conclusion

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

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will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Juan D. Valentin II whose telephone number is (571) 272-2433.

The examiner can normally be reached on Mon.-Fri..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Gregory J. Toatley, Jr. can be reached on (571) 272-2800 ext. 77. The fax phone

number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Juan D Valentin II Examiner 2877 JDV

February 23, 2007

LAYLA G. LAUCHMAN PRIMARY EXAMINER